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PAPER NUMBER

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/600,952 06/20/2003 Geoffrey Lilley Smith 00-431-BB 9489

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Michael S. Greenfield CHEN, STACY BROWN

Michael S. Greenfield McDonnell Boehnen Hulbert & Berghoff 32nd Floor 300 S. Wacker Drive Chicago, IL 60606

1648
DATE MAILED: 05/16/2005

ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/600,952	SMITH ET AL.
Office Action Summary	Examiner	Art Unit
	Stacy B. Chen	1648
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1)⊠ Responsive to communication(s) filed on <u>20 June 2003</u> .		
2a) This action is FINAL . 2b) This	action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) Claim(s) 1-8 and 12-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-8 and 12-36 are subject to restriction and/or election requirement. 		
Application Papers		
9) The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)

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DETAILED ACTION

1. Applicant's amendment filed June 20, 2003 is acknowledged and entered. Claims 1-8 and 12-36 are pending and subject to the following restriction requirement.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1, 2 and 6, drawn to a method of expressing a human cytomegalovirus virus (HCMV) polypeptide, classified in class 435, subclass 69.1.
 - II. Claims 3, 4 and 5, drawn to DNA that encodes an HCMV polypeptide a recombinant virus vector, classified in class 536, subclass 23,1 and class 435, subclass 320.1.
 - III. Claims 7, 8, 13, 15 and 28, drawn to a method of preparing monospecific antibodies to HCMV by administering an HCMV polypeptide to a subject, classified in class 435, subclass 5.
 - IV. Claims 12 and 14, drawn to a method of preparing monospecific antibodies to HCMV by administering a recombinant virus vector, classified in class 424, subclass 130.1.
 - V. Claims 16-21, drawn to HCMV monospecific antisera, classified in class 424, subclass 230.1
 - VI. Claims 22-24 and 29-36, drawn to HCMV antibodies against HCMV glycoprotein gH, classified in class 424, subclass 230.1.

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VII. Claims 25-27, drawn to HCMV antibodies against HCMV glycoprotein gB, classified in class 424, subclass 230.1.

3. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the DNA can be used in a method of detecting antibodies that bind HCMV nucleic acids.

The methods of Groups I and (III and IV) are distinct, related only by the product that is made or used, an HCMV peptide. A method of expressing a peptide does not share method steps with a method of inducing antibodies to a peptide. These methods are disclosed as useable together, resulting in different effects. A search for both methods would be a serious burden.

The methods of Groups III and IV are distinct methods of producing antibodies. In the method of Group III, a polypeptide is administered to a subject. However, in the method of Group IV, a viral vector is administered to a subject. The paths of an administered peptide and vector are not shared entirely. A peptide will be processed by the immune system, presented by APCs and inducing antibodies. A vector must first be expressed before it can be processed as the peptide is processed. Therefore, the methods are distinct and a search for both would be a serious burden as method of administering peptides will not necessarily reveal literature relating to a method of administering viral vectors that encode the peptides.

Inventions (III and IV) and (V-VII) are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the antibodies can be made by another materially different process such as grafting desired antibody domains onto another antibody to result in an antibody with the same paratopes as the claimed antibodies.

Inventions III and (VI, VII, VIII) are patentably distinct products.

The polynucleotide of group II and the antibodies of groups V-VII are patentably distinct for the following reasons. The antibody groups include, for example, IgG molecules which comprise 2 heavy and 2 light chains containing constant and variable regions, and including framework regions which act as a scaffold for the 6 complementarity determining regions (CDRs). Polypeptides, such as the antibodies of groups V-VII, which are composed of amino acids, and polynucleotides, which are composed of nucleic acids, are structurally distinct molecules; any relationship between a polynucleotide and polypeptide is dependent upon the information provided by the nucleic acid sequence open reading frame as it corresponds to the primary amino acid sequence of the encoded polypeptide. In the present claims, a polynucleotide of group II will not encode any of the antibodies of groups V-VII, and the antibodies of group V-VII cannot be encoded by a polynucleotide of group II. Therefore the antibody and polynucleotide are patentably distinct.

The antibody and polynucleotide inventions have a separate status in the art as shown by their different classifications. Furthermore, searching the inventions of group II and groups V-VII would impose a serious search burden since a search of the polynucleotide of group II would not be used to determine the patentability of an antibody of groups V-VII, and vice-versa.

Antibodies of Groups V, VI and VII are distinct products.

The antibodies of Group V bind generally to HCMV, while the antibodies of Group VI and VII bind specifically to glycoprotein H and B, respectively. The structure of antibodies includes variable domains that are composed of different amino acid sequences that form binding regions, paratopes. Since the antibodies bind different proteins (gH, gB and HCMV generally), the antibodies' structures are distinct. A search for an antibody to gH will not necessarily reveal literature relevant to an antibody that binds gB. A search for all three antibodies would be a serious burden.

4. Because these inventions are distinct for the reasons given above, have acquired a separate status in the art as shown by their different classification, and the search required for each group is not required for the other groups because each group requires a different non-patent literature search due to each group comprising different products and/or method steps, restriction for examination purposes as indicated is proper. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143). Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in

compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

5. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier.

Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowble, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above

policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stacy B. Chen whose telephone number is 571-272-0896. The examiner can normally be reached on M-F (7:00-4:30). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James C. Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Haa.B. Chon Stacy B. Chen

May 13, 2005